AMENDMENTS TO THE CLAIMS

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1. (Currently amended) A method of combating toxicity caused by raltitrexed an antifolate compound of Formula I,

wherein

R¹ represents NH₂, OH or CH₃;

R² represents NH₂ or C₁₋₄ alkyl;

the group B represents a structural fragment of Formula Ia, Ib, Ic, Id or Ie,

$$A^{2} = R^{5a}$$

$$A^{2} = R^{5a}$$

$$A^{3} = R^{5c}$$

$$A^{4} = R^{5c}$$

$$A^{4} = R^{5c}$$

$$A^{5c} = R^{5c}$$

$$A^{6} = R^{5c}$$

$$A^{5}$$
Id le

in which groups the dashed lines indicate the point of ring fusion with the pyrimidinyl ring and the wavy lines indicate the point of attachment of the structural fragments to the group X; R^{5a} to R^{5e} independently represent H or $C_{1,4}$ alkyl;

 $A^{\frac{1}{2}}$ represents $C(R^{\frac{6a}{2}})$ or N;

A²-represents CH or N;

A³-represents C(H)R^{6b}, NR^{6e}-or S;

A⁴ and A⁵ independently represent CH₂, NH, O or S;

the group B¹-B²-represents CH CH or C=C;

 $R^{6a} - to \ R^{6e} - independently \ represent \ H \ or \ C_{1-4} \ alkyl, \ or \ R^{6e} - represents \ C(O) R^{6d}, \ or \ R^{6e}, \ together$

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with R^{7b} represents C₁₋₂ n alkylene;

R^{6d} represents H or C₁₋₄ alkyl;

X represents CH₂C(H)R^{7a} or CH₂NR^{7b} (in which latter two groups the CH₂ moiety is attached to the fused, pyrimidine based heterocyclic group);

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 R^{7a} and R^{7b} independently represent H, C_{1-6} alkyl, C_{3-6} alkenyl or C_{3-6} alkynyl, or R^{7b} , together with R^{6e} represents C_{1-2} n alkylene;

A⁶ represents O or S;

R⁸ represents H or one or two substituents selected from halo, C₁₋₄ alkyl and C₁₋₄ alkoxy; R³ represents H or C₁₋₄ alkyl:

R⁴-represents-CH₂C(R^{9a})(R^{9b})-D;

 R^{9a} -and R^{9b} -independently represent H or C_{1-4} -alkyl, or R^{9a} -and R^{9b} -together represent = $C(H)R^{10}$:

R¹⁰ represents H or C₁₋₄ alkyl;

D represents C(O)OH, tetrazol 5 yl, $(CH_2)_{0.1}$ -NHR¹¹, or, when R^{9a} and R^{9b} together represent =C(H)R¹⁰, then D may also represent H, or D represents a structural fragment of Formula IIIa or IIIb,

wherein the wavy lines indicate the point of attachment of the structural fragments; R^{11} -represents H or $C(O)R^{12}$:

 R^{12} -represents H or phenyl substituted by C(O)OH and optionally substituted by one or two further substituents selected from halo, $C_{1,4}$ alkyl and $C_{1,4}$ alkoxy; and alkyl, alkenyl and alkynyl groups, as well as the alkyl part of alkoxy groups, may be substituted by one or more halo atoms;

or a pharmaceutically acceptable salt and/or solvate thereof,

in an individual who has been administered said compound, the method comprising administering to the individual an enzyme that has carboxypeptidase G activity carboxypeptidase G_2 (EC 3.4.22.12) to the individual.

2. (Canceled)

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3. (Currently amended) A method according to Claim 1 or 2 wherein the individual is administered the carboxypeptidase G_2 the enzyme that has carboxypeptidase G activity between about 24 and 48 hours after being administered the raltitrexed or salt or solvate thereof antifolate compound.

- 4. (Currently amended) A method according to <u>Claim 1</u> any of <u>Claims 1</u> to 3 wherein the individual has one of more clinical markers of toxicity caused by <u>raltitrexed</u> the antifolate compound.
- 5. (Currently amended) A method according to Claim 4 wherein the clinical marker of toxicity caused by <u>raltitrexed</u> the antifolate compound is a plasma level of <u>raltitrexed</u> the compound greater than a <u>predetermined plasma</u> level indicating toxicity at a given time after administration of the compound.
- 6. (Currently amended) A method according to Claim 5 wherein the predetermined blood plasma level of <u>raltitrexed</u> the antifolate compound indicating toxicity is 1μM at 24 hours after administration of the compound.
- 7. (Currently amended) A method according to Claim 5 or 6 further comprising the prior step of determining the plasma level of <u>raltitrexed</u> the antifolate eompound in the individual at a given time after administration of the compound.
- 8. (Currently amended) A method according to <u>Claim 1</u> any of <u>Claims 1</u> to 7 wherein the individual has one or more clinical symptoms of toxicity caused by <u>raltitrexed</u> the antifolate compound.
- 9. (Currently amended) A method according to Claim 8 wherein the <u>one</u> or <u>more</u> clinical symptom of toxicity caused by <u>raltitrexed</u> the antifolate compound is <u>are</u> selected from <u>the group consisting of</u> anaemia, anorexia, asthenia, dehydration, diarrhoea, <u>fatigue</u>, fever, hepatotoxicity, <u>hyperbilirubinaemia</u>, <u>leukopaenia</u>, mucositis, myelosuppression, nausea, <u>and</u> neutropaenia, <u>rash</u>, <u>reversible transaminitis</u>, <u>stomatitis</u>, thrombocytopaenia and vomiting.
- 10. (Currently amended) A method according to Claim 8 or 9 further comprising the prior step of determining the presence of the one or more clinical symptoms of toxicity caused by <u>raltitrexed</u> the antifolate compound in the individual.
- 11. (Currently amended) A method according to <u>Claim 1</u> any of <u>Claims 1</u> to 10 and further comprising administering a folate pathway rescue agent to the individual.
 - 12. 13. (Canceled)

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14. (Currently amended) A method according to Claim 11 wherein the antifolate compound of Formula I is an inhibitor of thymidylate synthase (TS), and the folate pathway rescue agent is thymidine.

- 15. (Canceled)
- 16. (Currently amended) A method according to <u>Claim 11</u> any of <u>Claims</u> 11 to 15 wherein the individual is administered the <u>carboxypeptidase G_2 enzyme that has earboxypeptidase G activity prior to the folate pathway rescue agent.</u>
- 17. (Currently amended) A method according to Claim 11 any of Claims 11 to 15 wherein the individual is administered the folate pathway rescue agent prior to the carboxypeptidase G_2 enzyme that has carboxypeptidase G activity.
- 18. (Currently amended) A method according to Claim 11 any of Claims 11 to 15 wherein the individual is administered the folate pathway rescue agent and the carboxypeptidase G_2 enzyme that has carboxypeptidase G activity substantially simultaneously.
- 19. (Currently amended) A method according to Claim 1 any of Claims 1 to 18 wherein the individual is administered the carboxypeptidase G_2 enzyme that has earboxypeptidase G activity at a dose of about 50 Units per kg body weight.
 - 20. 49. (Canceled)
- 50. (Currently amended) A method of monitoring the effectiveness of carboxypeptidase G_2 (EC 3.422.12) in combating raltitrexed toxicity in an individual in vivo determining the rate and/or extent of cleavage of a compound of Formula I as defined in Claim 1 or Claim 2 by an enzyme that has carboxypeptidase G activity, the method comprising:

providing an individual who has been administered raltitrexed the compound of Formula I.

contacting the <u>raltitrexed</u> compound of Formula I with the carboxypeptidase G_2 an enzyme that has carboxypeptidase G activity under conditions such that cleavage of them <u>raltitrexed</u> compound can occur, and

monitoring the rate and/or extent of cleavage of the <u>raltitrexed</u> compound of Formula I over time.

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51. (Currently amended) A method according to Claim 50 wherein the monitoring step comprises monitoring the amount, concentration, or both and/or concentration of the raltitrexed compound of Formula I.

- 52. (Currently amended) A method according to Claim 50 or 51 wherein the monitoring step comprises monitoring the amount, concentration, or both and/or concentration of one or more break-down products of raltitrexed the compound of Formula I.
 - 53. 54. (Canceled)
- 55. (Currently amended) A method according to <u>Claim 50 Claim 54</u> further comprising determining whether an additional dose of the <u>carboxypeptidase G_2</u> enzyme that has carboxypeptidase G activity is required in order reduce the amount of the <u>raltitrexed</u> compound of Formula I to a <u>non-toxic</u> predetermined level.
- 56. (Currently amended) A method according to Claim 54 or 55 further comprising contacting the <u>raltitrexed</u> eompound of Formula I with an additional dose of the <u>carboxypeptidase G_2 enzyme that has carboxypeptidase G activity under conditions such that cleavage of the eompound <u>raltitrexed</u> can occur.</u>
 - 57. 63. (Canceled)
- 64. (New) A method of combating toxicity caused by raltitrexed which has been administered to a human individual for the treatment of cancer, the method comprising:

administering raltitrexed or a pharmaceutically acceptable salt and/or solvate thereof to the individual;

subsequently determining whether the individual has a clinical marker of raltitrexed toxicity and/or one or more clinical symptoms of raltitrexed toxicity; and

if the individual has a clinical marker of raltitrexed toxicity and/or one or more clinical symptoms of raltitrexed toxicity, administering to the individual carboxypeptidase G_2 (EC 3.4.22.12).

- 65. (New) A method according to Claim 64 wherein the clinical marker of raltitrexed toxicity is a plasma level of raltitrexed greater than a plasma level indicating toxicity at a given time after administration.
- 66. (New) A method according to Claim 65 wherein the plasma level of raltitrexed indicating toxicity is 1µM at 24 hours after administration.

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67. (New) A method according to Claim 64 wherein the one or more clinical symptoms of raltitrexed toxicity are selected from the group consisting of anaemia, asthenia, dehydration, diarrhoea, hepatotoxicity, mucositis, myelosuppression, nausea and neutropaenia.

- 68. (New) A method according to Claim 64 further comprising administering thymidine to the individual.
- 69. (New) A method according to Claim 64 wherein the individual has a cancer selected from the group consisting of cancer of the breast, ovary, colon/rectum, liver, prostate, pancreas or stomach, or non small cell lung cancer, malignant mesothelioma and carcinoma of unknown primary.
- 70. (New) A method according to Claim 64 wherein the individual has colorectal cancer.